## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016513

A. CLASSIFICATION OF SUBJECT MATTER	<del> </del>	
Int.Cl <sup>7</sup> H04B7/06, H04B7/10, H04J11/0	00, н04J15/00	
According to International Patent Classification (IPC) or to both nation	nal classification and IPC	
B. FIELDS SEARCHED		<del> </del>
Minimum documentation searched (classification system followed by c Int.Cl <sup>7</sup> H04B7/02-7/12, H04L1/02-1/06 H04Q7/00-7/38, H04J11/00, H0	5, H04B7/24-7/26, 04J15/00	
Kokai Jitsuyo Shinan Koho 1971-2004 J	oroku Jitsuyo Shinan Koho itsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data base consulted during the international search (name of	data base and, where practicable, search tea	rms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where a		Relevant to claim No.
Y JP 2001-203623 A (Oki Electi Co., Ltd.), 27 July, 2001 (27.07.01), Par. Nos. [0088] to [0108]; (Family: none)	·	1-10
Y JP 2001-251233 A (Toshiba Co 14 September, 2001 (14.09.01 Par. Nos. [0072] to [0079]; & US 2001/0049295 A1	),	1,6
Y JP 2003-110476 A (Matsushita Industrial Co., Ltd.), 11 April, 2003 (11.04.03), Par. Nos. [0059], [0060]; Fig & WO 2003/030404 A1 & EP & US 2004/058711 A	gs. 4, 5	1-10
Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  document defining the general state of the art which is not considered to be of particular relevance  earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
Date of the actual completion of the international search 03 February, 2005 (03.02.05)	Date of mailing of the international search report 22 February, 2005 (22.02.05)	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.	

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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International application No.
PCT/JP2004/016513

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C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT			
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Y	JP 2002-135032 A (NEC Corp.), 10 May, 2002 (10.05.02), Fig. 1 & EP 1202389 A1 & CN 1350348 A & US 6433738 B1		2,4,7,9	
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